BSC opens applications for 20 predoctoral INPhINIT -"La Caixa" fellowships

Deadline for application: February 1st, 2018

INPhINIT is a doctoral fellowship programme devoted to attracting international Early-Stage Researchers to the top Spanish research centres in the areas of Bio and Health Sciences, Physics, Technology, Engineering and Mathematics. INPhINIT is promoted by "la Caixa" Foundation with the aim of supporting the best scientific talent and fostering innovative and high-quality research in Spain by recruiting outstanding international students and offering them an attractive and competitive environment for conducting research of excellence. The"la Caixa"-INPhINIT fellowship programme is co-funded by the European Commission through COFUND, one of the Marie Sk?odowska-Curie initiatives of the Horizon 2020 Framework Programme.

In this 2nd edition, Barcelona Supercomputing Center offers 20 predoctoral positions. The selected candidates will have the opportunity of joining BSC’s research groups to carry out one of the research projects listed below. If you’re interested in any of these projects, please contact the person supervising the project.

- Modelling of Ion Cyclotron Resonance Frequency Wave Heating for Fusion Plasmas ([Dr. Mervi Mantsinen](#))
- Multi-partitioning for the solution of PDEs ([Dr. Guillaume Houzeaux](#))
- Multi-scale, multi-physics simulations of the human Atria ([Dr. Mariano Vázquez](#))
- Automatic space-borne detection of atmospheric natural hazards ([Dr. Arnau Folch](#))
- Adjoint method for Large-Eddy Simulation applied to Optimal Active Flow Control Problems ([Dr. Mariano Vázquez](#))
- Deep Learning and Artificial Intelligence for Forecasting Weather Related Phenomena ([Dr. Fernando Cucchietti](#))
- In-silico laboratory for safety drug testing ([Dr. Mariano Vázquez](#))
- Enhancing Data Management Programmability and Efficiency in GPU Architectures ([Dr. Antonio J. Peña Monferrer](#))
• Programming models to support the integration of High-Performance Computing and Data Analytics (Dr. Rosa M Badia)
• Cross-modal Deep Learning between Vision, Language, Audio and Speech (Dr. Jordi Torres)
• A Domain Specific Language (DSL) for Solving Partial Differential Equations (PDEs) (Dr. Vicenç Beltran)
• Processes controlling seasonal-to-decadal predictability of Carbon Uptake by the ocean (Dr. Pablo Ortega Montilla)
• Climate prediction of fire risk (Dr. Louis-Philippe Caron)
• Allergological pollen modelling for air quality forecasts (Dr. Oriol Jorba)
• Aerosol effects upon climate (Dr. Carlos Perez García-Pando)
• Climate predictions for climate services (Dr. Albert Soret Miravet)
• Evaluation and optimization of Earth System Models in the path to the new era of High Performance Computing platforms (Dr. Alicia Sánchez)
• Post-Processing techniques for real-time air quality forecast based on analogs (Dr. Alicia Sánchez)
• Programing the First Virtual and Interactive Drug Design Platform (VirtualDD) (Dr. Victor Guallar)
• Developer of infrastructure and methods for the analysis of genomes (Dr. Miguel Vázquez)

Further information:

INPhINIT Programme description Doctoral studies at Spanish Research CoE PhD Position Search

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